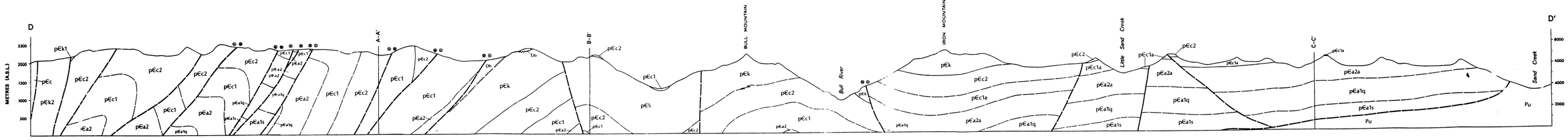

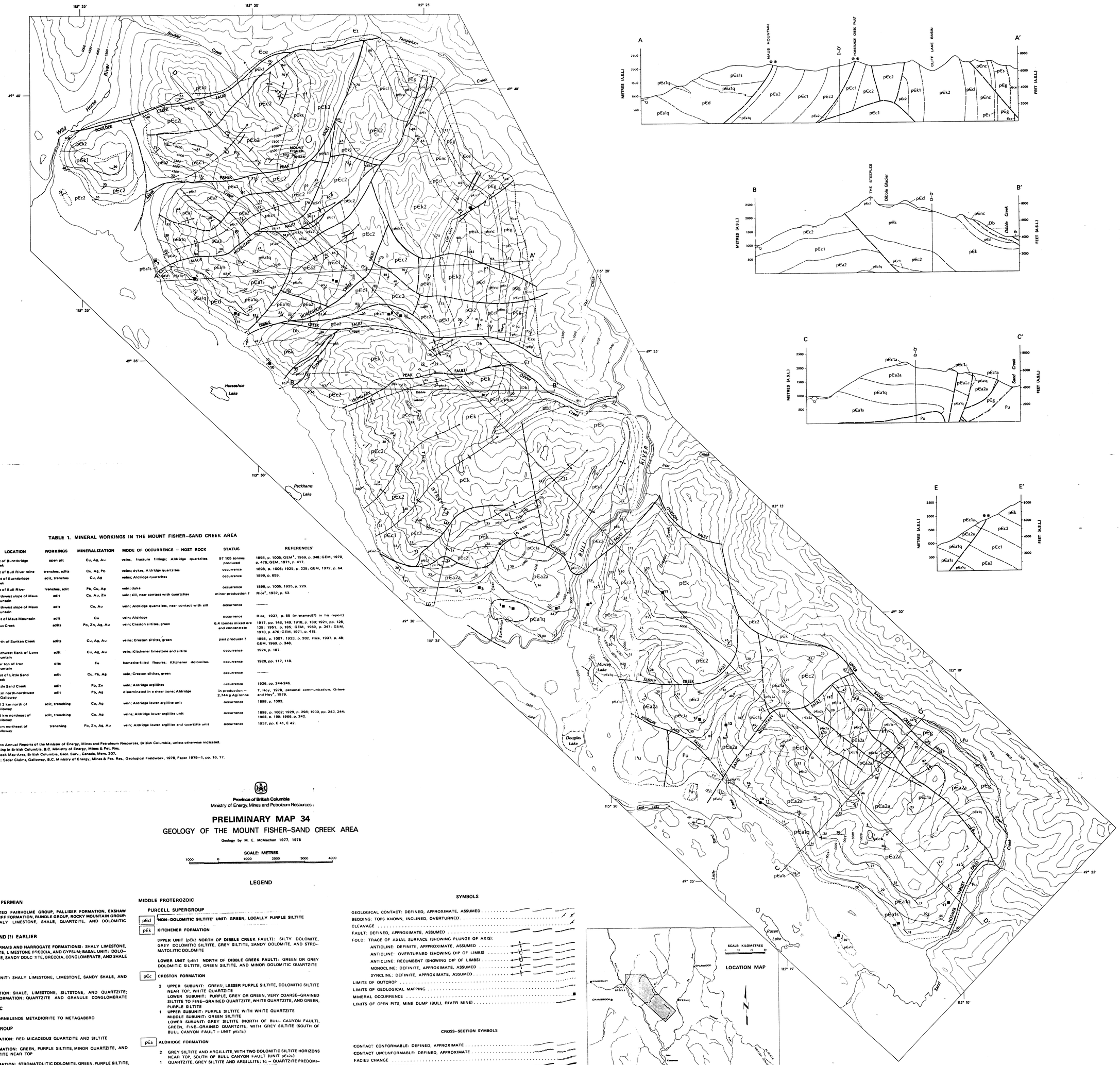

TABLE 1. MINERAL WORKINGS IN THE MOUNT FISHER–SAND CREEK AREA

NO.	NAME	LOCATION	WORKINGS	MINERALIZATION	MODE OF OCCURRENCE – HOST ROCK	STATUS	REFERENCES[1]
1	Bull River mine	east of Burntbridge Creek	open pit	Cu, Ag, Au	veins, fracture fillings; Aldridge quartzites	97 105 tonnes produced	1898, p. 1005; GEM[2], 1969, p. 348; GEM, 1970, p. 476; GEM, 1971, p. 417.
2	Copper King	east of Bull River mine	trenches, adits	Cu, Ag, Pb	veins; dykes, Aldridge quartzites	occurrence	1898, p. 1006; 1925, p. 228; GEM, 1972, p. 64.
3	Old Abe	west of Burntbridge Creek	adit, trenches	Cu, Ag	veins; Aldridge quartzites	occurrence	1899, p. 659.
4	Trilby Group	east of Bull River	trenches, adit	Pb, Cu, Ag	vein; dyke	occurrence	1898, p. 1005; 1925, p. 229.
5	Eagle's Nest	southwest slope of Maus Mountain	adit	Cu, Au, Zn	vein; sill, near contact with quartzites	minor production ?	Rice[3], 1937, p. 53.
6	unknown	southwest slope of Maus Mountain	adit	Cu, Au	vein; Aldridge quartzites, near contact with sill	occurrence	----------
7	unknown	foot of Maus Mountain	adit	Cu	vein; Aldridge	occurrence	Rice, 1937, p. 55 (misnamed(?) in his report)
8	Victor	Maus Creek	adits	Pb, Zn, Ag, Au	vein; Creston siltites, green	6.4 tonnes mixed ore and concentrate	1917, pp. 148, 149; 1918, p. 180; 1921, pp. 128, 129; 1951, p. 185; GEM, 1969, p. 347; GEM, 1970, p. 476; GEM, 1971, p. 418.
9	Dibble	north of Sunken Creek	adits	Cu, Ag, Au	veins; Creston siltites, green	past producer ?	1898, p. 1007; 1933, p. 202; Rice, 1937, p. 48; GEM, 1969, p. 348.
10	Eagle Plume	southwest flank of Lone Mountain	adit	Cu, Ag, Au	vein; Kitchener limestone and siltite	occurrence	1924, p. 187.
11	Bull River Iron	near top of Iron Mountain	pits	Fe	hematite-filled fissures, Kitchener dolomites	occurrence	1920, pp. 117, 118.
12	unknown	west of Little Sand Creek	adit	Cu, Pb, Ag	vein; Creston siltites, green	occurrence	----------
13	Great Western	Little Sand Creek	adit	Pb, Zn	vein; Aldridge argillites	occurrence	1926, pp. 244-246.
14	Cedar	7 km north-northwest of Galloway	adit	Pb, Ag	disseminated in a shear zone; Aldridge	in production – 2,744 g Ag/tonne	T. Hoy, 1978, personal communication; Grieve and Hoy[4], 1979.
15	Mountain	hill 2 km north of Galloway	adit, trenching	Cu, Ag	vein; Aldridge lower argillite unit	occurrence	1898, p. 1003.
16	Empire and Strathcona	3.5 km northeast of Galloway	adit, trenching	Cu, Ag	veins; Aldridge lower argillite unit	occurrence	1898, p. 1002; 1929, p. 298; 1930, pp. 243, 244; 1965, p. 199; 1966, p. 242.
17	Burt Group	5 km northeast of Galloway	trenching	Pb, Zn, Ag, Au	vein; Aldridge lower argillite and quartzite unit	occurrence	1937, pp. E 41, E 42.

[1] Dates and page numbers refer to Annual Reports of the Minister of Energy, Mines and Petroleum Resources, British Columbia, unless otherwise indicated.
[2] Geology, Exploration and Mining in British Columbia, B.C. Ministry of Energy, Mines & Pet. Res.
[3] Rice, H. M. A. (1937): Cranbrook Map-Area, British Columbia, Geol. Surv., Canada, Mem. 207.
[4] Grieve, D. and Hoy, T. (1979): Cedar Claims, Galloway, B.C. Ministry of Energy, Mines & Pet. Res., Geological Fieldwork, 1978, Paper 1979–1, pp. 16, 17.

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

PRELIMINARY MAP 34

GEOLOGY OF THE MOUNT FISHER–SAND CREEK AREA

Geology by M. E. McMechan 1977, 1978

SCALE: METRES
1000 0 1000 2000 3000 4000

LEGEND

UPPER DEVONIAN TO PERMIAN

Pu — UNDIFFERENTIATED FAIRHOLME GROUP, PALLISER FORMATION, EXSHAW FORMATION, BANFF FORMATION, RUNDLE GROUP, ROCKY MOUNTAIN GROUP: LIMESTONE, SHALY LIMESTONE, SHALE, QUARTZITE, AND DOLOMITIC QUARTZITE

MIDDLE DEVONIAN AND (?) EARLIER

Db — UPPER UNIT (BURNAIS AND HARROGATE FORMATIONS): SHALY LIMESTONE, SHALY DOLOMITE, LIMESTONE BRECCIA, AND GYPSUM; BASAL UNIT: DOLOMITIC SANDSTONE, SANDY DOLOMITE, BRECCIA, CONGLOMERATE, AND SHALE

CAMBRIAN

Ꞓt — 'TANGLEFOOT UNIT': SHALY LIMESTONE, LIMESTONE, SANDY SHALE, AND DOLOMITE

Ꞓce — EAGER FORMATION: SHALE, LIMESTONE, SILTSTONE, AND QUARTZITE; CRANBROOK FORMATION: QUARTZITE AND GRANULE CONGLOMERATE

MIDDLE PROTEROZOIC

pꞒd — MOYIE SILL: HORNBLENDE METADIORITE TO METAGABBRO

PURCELL SUPERGROUP

pꞒp — PHILLIPS FORMATION: RED MICACEOUS QUARTZITE AND SILTITE

pꞒg — GATEWAY FORMATION: GREEN, PURPLE SILTITE, MINOR QUARTZITE, AND DOLOMITIC SILTITE NEAR TOP

pꞒs — SHEPPARD FORMATION: STROMATOLITIC DOLOMITE, GREEN, PURPLE SILTITE, QUARTZITE, AND SILTY DOLOMITE

pꞒnc — 'LAVA AND SEDIMENT' UNIT: MASSIVE TO AMYGDALOIDAL 'ANDESITIC' LAVA, VOLCANIC AND FELDSPATHIC SANDSTONE, SILTITE, AND MINOR DOLOMITIC SILTITE

MIDDLE PROTEROZOIC

PURCELL SUPERGROUP

pꞒcl — 'NON-DOLOMITIC SILTITE' UNIT: GREEN, LOCALLY PURPLE SILTITE

pꞒk — KITCHENER FORMATION

UPPER UNIT (pꞒk2 NORTH OF DIBBLE CREEK FAULT): SILTY DOLOMITE, GREY DOLOMITIC SILTITE, GREY SILTITE, SANDY DOLOMITE, AND STROMATOLITIC DOLOMITE

LOWER UNIT (pꞒk1 NORTH OF DIBBLE CREEK FAULT): GREEN OR GREY DOLOMITIC SILTITE, GREEN SILTITE, AND MINOR DOLOMITIC QUARTZITE

pꞒc — CRESTON FORMATION

2 UPPER SUBUNIT: GREEN, LESSER PURPLE SILTITE, DOLOMITIC SILTITE NEAR TOP, WHITE QUARTZITE
LOWER SUBUNIT: PURPLE, GREY OR GREEN, VERY COARSE-GRAINED SILTITE TO FINE-GRAINED QUARTZITE, WHITE QUARTZITE, AND GREEN, PURPLE SILTITE
1 UPPER SUBUNIT: PURPLE SILTITE WITH WHITE QUARTZITE
MIDDLE SUBUNIT: GREEN SILTITE
LOWER SUBUNIT: GREY SILTITE (NORTH OF BULL CANYON FAULT), GREEN, FINE-GRAINED QUARTZITE, WITH GREY SILTITE (SOUTH OF BULL CANYON FAULT – UNIT pꞒc1a)

pꞒa — ALDRIDGE FORMATION

2 GREY SILTITE AND ARGILLITE, WITH TWO DOLOMITIC SILTITE HORIZONS NEAR TOP, SOUTH OF BULL CANYON FAULT (UNIT pꞒa2a)
1 QUARTZITE, GREY SILTITE AND ARGILLITE; 1q – QUARTZITE PREDOMINANT, 1s – SILTITE AND ARGILLITE PREDOMINANT

SYMBOLS

GEOLOGICAL CONTACT: DEFINED, APPROXIMATE, ASSUMED
BEDDING: TOPS KNOWN, INCLINED, OVERTURNED
CLEAVAGE
FAULT: DEFINED, APPROXIMATE, ASSUMED
FOLD: TRACE OF AXIAL SURFACE (SHOWING PLUNGE OF AXIS):
ANTICLINE: DEFINITE, APPPROXIMATE, ASSUMED
ANTICLINE: OVERTURNED (SHOWING DIP OF LIMBS)
ANTICLINE: RECUMBENT (SHOWING DIP OF LIMBS)
MONOCLINE: DEFINITE, APPROXIMATE, ASSUMED
SYNCLINE: DEFINITE, APPROXIMATE, ASSUMED
LIMITS OF OUTCROP
LIMITS OF GEOLOGICAL MAPPING
MINERAL OCCURRENCE
LIMITS OF OPEN PITS, MINE DUMP (BULL RIVER MINE)

CROSS-SECTION SYMBOLS

CONTACT CONFORMABLE: DEFINED, APPROXIMATE
CONTACT UNCONFORMABLE: DEFINED, APPROXIMATE
FACIES CHANGE
FAULT: DEFINITE, APPROXIMATE
FAULT WITH KNOWN STRIKE-SLIP MOVEMENT INTO PLANE OF SECTION
FAULT WITH KNOWN STRIKE-SLIP MOVEMENT OUT OF PLANE OF SECTION
QUATERNARY DEPOSITS